09/889,379

Freeform Search

Database: Term:	US Pre-Grant Publication Full-Text Database US Patents Full-Text Database US OCR Full-Text Database EPO Abstracts Database JPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins			
Display: 10 Documents in <u>Display Format</u> : Starting with Number 1 Generate: O Hit List O Hit Count O Side by Side O Image				
	Search Clear Interrupt			
Search History				

DATE: Wednesday, February 04, 2004 Printable Copy Create Case

Set Name side by side	Query	Hit Count	Set Name result set
DB = USPT	,EPAB,JPAB,DWPI; PLUR=YI	ES; OP=ADJ	
<u>L11</u>	19 and DNA	2	<u>L11</u>
<u>L10</u>	L9 and tumor cell\$1	0	<u>L10</u>
<u>L9</u>	lida.in.	308	<u>L9</u>
<u>L8</u>	L7 and immobiliz\$7	1	<u>L8</u>
<u>L7</u>	L6 and DNA	23	<u>L7</u>
<u>L6</u>	L5 and tumor cell\$1	107	<u>L6</u>
<u>L5</u>	saito.in.	115361	<u>L5</u>
<u>L4</u>	L3 and tumor	11	<u>L4</u>
<u>L3</u>	11 and DNA	117	<u>L3</u>
<u>L2</u>	L1 and saito and lida	0	<u>L2</u>
<u>L1</u>	sugiyama.in.	32045	<u>L1</u>

END OF SEARCH HISTORY

FILE 'HOME' ENTERED AT 13:51:30 ON 04 FEB 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL SESSION

FULL ESTIMATED COST

ENTRY 0.21

0.21

FILE 'REGISTRY' ENTERED AT 13:51:38 ON 04 FEB 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. PLEASE SEE "HELP USAGETERMS" FOR DETAILS. COPYRIGHT (C) 2004 American Chemical Society (ACS)

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STRUCTURE FILE UPDATES: 3 FEB 2004 HIGHEST RN 646026-80-4 DICTIONARY FILE UPDATES: 3 FEB 2004 HIGHEST RN 646026-80-4

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

*** YOU HAVE NEW MAIL ***

=>

Uploading C:\Program Files\Stnexp\Queries\joyce.str

L1STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1

STR

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.

=> s l1 full

FULL SEARCH INITIATED 13:52:07 FILE 'REGISTRY' FULL SCREEN SEARCH COMPLETED - 35 TO ITERATE

100.0% PROCESSED 35 ITERATIONS

5 ANSWERS

SEARCH TIME: 00.00.01

L2

5 SEA SSS FUL L1

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL

ENTRY SESSION

FULL ESTIMATED COST

155.42 155.63

FILE 'CAPLUS' ENTERED AT 13:52:16 ON 04 FEB 2004 USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT. Ť

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FILE COVERS 1907 - 4 Feb 2004 VOL 140 ISS 6 FILE LAST UPDATED: 3 Feb 2004 (20040203/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 12 L3 4 L2

=> d l4 bib abs hitstr 1-4

L4 NOT FOUND

The L-number entered has not been defined in this session, or it has been deleted. To see the L-numbers currently defined in this session, enter DISPLAY HISTORY at an arrow prompt (=>).

=> d l3 bib abs hitstr 1-4

L3 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2003:341959 CAPLUS

DN 139:345455

TI Gene therapy of cancer by using novel alkylating pyrrole-imidazole polyamide

AU Sugiyama, Hiroshi

CS Dep. of Biomaterials, Tokyo Medical and Dental University, Japan

SO Ikagaku Oyo Kenkyu Zaidan Kenkyu Hokoku (2001), Volume Date 2000, 19, 198-202

CODEN: IOKHEP; ISSN: 0914-5117

PB Ikagaku Oyo Kenkyu Zaidan

DT Journal

LA Japanese

AB Novel alkylating pyrrole-imidazole polyamide derivs. were design and prepared for gene therapy of cancer. The antitumor activities of the derivs. against Hela cells were tested.

IT 339984-88-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(gene therapy of cancer by using novel alkylating pyrrole-imidazole polyamides)

RN 339984-88-2 CAPLUS

IT 339984-91-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(gene therapy of cancer by using novel alkylating pyrrole-imidazole polyamides)

RN 339984-91-7 CAPLUS

Cyclopropa[c]pyrrolo[3,2-e]indole-7-carboxylic acid, 2-[3-[4-[[4-(acetylamino)-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]-1-oxo-2-propenyl]-1,2,4,5,8,8a-hexahydro-6-methyl-4-oxo-, methyl ester, (7bR,8aS)- (9CI) (CA INDEX NAME)

- L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN
- AN 2001:365880 CAPLUS
- DN 134:366795
- TI DNA sequence recognition by pyrrole-imidazole polyamide for use in anticancer drug screening
- IN Sugiyama, Hiroshi; Saito, Akira; Iida, Hirokazu
- PA Foundation for Scientific Technology Promotion, Japan
- SO Jpn. Kokai Tokkyo Koho, 14 pp. CODEN: JKXXAF
- DT Patent
- LA Japanese
- FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	JP 2001136974	A2	20010522	JP 1999-326007	19991116
	WO 2001036677	A1	20010525	WO 2000-JP7992	20001113

W: US

RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR

EP 1152061 A1 20011107 EP 2000-974961 20001113

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

US 2003099998 A1 20030529 US 2002-285030 20021101

PRAI JP 1999-326007 A 19991116

WO 2000-JP7992 W 20001113

US 2001-889379 A3 20010716

AB Novel chemical species represented by the following general formula B-L-A (B = a chemical structure capable of recognizing the base sequence of DNA, for example, optionally substituted pyrrole-imidazole polyamide; A = a chemical structure capable of binding to unnatural nucleotide bases, for example, the alkylation moiety of duocarmycin A; L = a linker capable of binding the chemical structures A and B, for example, vinyl) and use of those compds. in screening of biol. activity of chemical compds. are disclosed. Those compds. are preferably DNA alkylating agents, applicable as anticancer agents. Reagent kits for screening, including microtiter plates, are claimed. Drug screening using human cancer cell lines, CL-wt cells, HLC-2 cells, Jurkat cells, and HeLa cells, and synthetic scheme for the bioactive compds., are described.

IT 339984-88-2 339984-91-7

RL: ARU (Analytical role, unclassified); BAC (Biological activity or effector, except adverse); BPR (Biological process); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)

(DNA sequence recognition by pyrrole-imidazole polyamide for use in anticancer drug screening)

RN 339984-88-2 CAPLUS

CN Cyclopropa[c]pyrrolo[3,2-e]indole-7-carboxylic acid, 2-[3-[4-[[[4-(acetylamino)-1-methyl-1H-pyrrol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]-1-oxo-2-propenyl]-1,2,4,5,8,8a-hexahydro-6-methyl-4-oxo-, methyl ester, (7bR,8aS)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 339984-91-7 CAPLUS

CN Cyclopropa[c]pyrrolo[3,2-e]indole-7-carboxylic acid, 2-[3-[4-[[[4-(acetylamino)-1-methyl-1H-imidazol-2-yl]carbonyl]amino]-1-methyl-1H-pyrrol-2-yl]-1-oxo-2-propenyl]-1,2,4,5,8,8a-hexahydro-6-methyl-4-oxo-, methyl ester, (7bR,8aS)- (9CI) (CA INDEX NAME)

L3 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:707167 CAPLUS

DN 133:266852

TI Preparation of duocarmycin derivatives capable of cleaving double-stranded DNA and method of utilization of the same

IN Sugiyama, Hiroshi; Tao, Zhi-Fu; Saito, Isao

PA Japan Science and Technology Corporation, Japan

SO PCT Int. Appl., 28 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN. CNT 1

PATENT NO.	KIND DATE	APPLICATION NO. DATE
PI WO 2000058312 W: CA, KR,		WO 2000-JP1461 20000310
		ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
JP 2000281679	A2 20001010	JP 1999-83591 19990326
CA 2328903	AA 20001005	CA 2000-2328903 20000310
EP 1083177	A1 20010314	EP 2000-907992 20000310
R: AT, BE,		FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
IE, FI		
PRAI JP 1999-83591	A 19990326	
WO 2000-JP1461	W 20000310	
GI		

AB Novel chemical species represented by the following general formula B-L-A (I; wherein B represents a chemical structure capable of recognizing the base sequence of DNA, for example, optionally substituted pyrrole-imidazole polyamide; A represents a chemical structure capable of binding to one base of DNA, for example, the alkylation moiety of duocarmycin A; and L represents a linker capable of binding the chemical structures A and B, for

example, vinyl) are prepared Also claimed are a method for alkylating DNA and a method for cleaving double-stranded DNA by using these compds.; and medicinal compns. with the use of these compds. for treatment of cancer. These compds. I, e.g. duocarmycin derivs. (II; R = CH, N) (preparation given) which recognizes base sequences TGACG or CGACG or their complimentary chain, are capable of simultaneously alkylating double-stranded DNA and cleaving the same and useful as artificial restriction enzymes or for targeting specific DNA base sequences for gene therapy. II (R = CH), II (R = N), and duocarmycin A in vitro showed IC50 of 1.5, 0.7 nM, and 4.7, resp., for inhibiting the proliferation of HeLaS3 cells.

IT 296794-37-1P 296794-38-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of duocarmycin derivs. capable of alkylating and cleaving double-stranded DNA as anticancer agents)

RN 296794-37-1 CAPLUS

Absolute stereochemistry.

Double bond geometry as shown.

RN 296794-38-2 CAPLUS

RE.CNT 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:96276 CAPLUS

DN 132:275556

TI Highly cooperative DNA dialkylation by the homodimer of imidazole-pyrrole diamide-CPI conjugate with vinyl linker

AU Tao, Zhi-Fu; Saito, Isao; Sugiyama, Hiroshi

CS CREST, Japan Science and Technology Corporation (JST), Japan

SO Journal of the American Chemical Society (2000), 122(8), 1602-1608 CODEN: JACSAT; ISSN: 0002-7863

PB American Chemical Society

DT Journal

LA English

OS CASREACT 132:275556

We synthesized new type of diamide-CPI conjugate possessing a vinyl linker ABSequence-selective alkylation of double-stranded DNA by 7 was investigated by high-resolution denaturing gel electrophoresis using .apprx.400 bp DNA fragments. Highly efficient alkylation predominantly occurs simultaneously at the purines of 5'-PyG(A/T)CPu-3' site on both strands at a nanomolar concentration of 7. These results suggest that the homodimer of conjugate 7 dialkylates both strands according to Dervan's pairing rule together with a new mode of recognition in which the Im-vinyl linker (L) pair targets G/C base pairs. In addition to the major dialkylation sites, a minor alkylation site was also observed at 5'-GT(A/T)GC-3'. This alkylation can be explained by an analogous slipped homodimer recognition mode in which the L-L pair recognizes the A/T base pair. Efficient dialkylation by the homodimer of 7 was further confirmed using oligonucleotides (ODNs). HPLC anal. revealed that the conjugate 7 simultaneously alkylates GN3/AN3 of the target sequences on both strands of ODNs.

IT 263710-69-6P

RL: NUU (Other use, unclassified); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent); USES (Uses) (preparation and cooperative DNA dialkylation by imidazole-pyrrole diamide-CPI conjugate with vinyl linker)

RN 263710-69-6 CAPLUS

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>

C:\Program Files\Stnexp\Queries\joyce.str

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Chain nodes:
    6 8 9 10 16 17 18 19 33 34 35 36 37 38 39 40 41 42 43 44 45

ring nodes:
    1 2 3 4 5 11 12 13 14 15 20 21 22 23 24 25 26 27 28 29 30 31 32

chain bonds:
    1-41 3-6 5-8 6-42 6-43 8-9 8-10 10-13 11-40 15-16 16-17 17-18 18-19 18-20
    27-33 30-35 31-34 32-39 35-36 35-37 37-38 43-44 43-45

ring bonds:
    1-2 1-5 2-3 3-4 4-5 11-12 11-15 12-13 13-14 14-15 20-21 20-24 21-22 22-23
    22-29 23-24 23-25 23-29 24-28 25-26 25-30 26-27 26-32 27-28 30-31 31-32

exact/norm bonds:
    1-2 1-5 1-41 2-3 3-4 3-6 4-5 5-8 6-42 6-43 8-9 8-10 10-13 11-12 11-15
    11-40 12-13 13-14 14-15 15-16 16-17 17-18 18-19 18-20 20-21 20-24 21-22 22-23
    22-29 23-24 23-25 23-29 24-28 25-26 25-30 26-27 26-32 27-28 27-33 30-31 30-35
    31-32 31-34 32-39 35-36 35-37 37-38 43-44 43-45
```

G1:C,N

Match level:
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 8:CLASS 9:CLASS 10:CLASS 11:Atom
12:Atom 13:Atom 14:Atom 15:Atom 16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:Atom
21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:Atom
31:Atom 32:Atom 33:CLASS 34:CLASS 35:CLASS 36:CLASS 37:CLASS 38:CLASS 39:CLASS
40:CLASS 41:CLASS 42:CLASS 43:CLASS 44:CLASS 45:CLASS